

CLAIMS

What is claimed is:

1. A load monitoring condition determination method for determining a load monitoring condition for performing load monitoring of a computer system comprised of one computer or a plurality of computers, wherein the method comprises the steps of:

giving a load to the computer system from the outside;

measuring a response or a throughput outside the computer system while the load is given to the computer system;

measuring a resource situation inside the computer system while the load is given to the computer system; and

determining a load monitoring condition used for the load monitoring of the computer system from the amount of load given to the computer system from the outside, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system.

2. The load monitoring condition determination method according to claim 1, wherein the load monitoring condition includes at least information on a monitoring item indicating which item of which resource should be monitored and a threshold to be used for monitoring of the monitoring item; and

the step of determining the load monitoring condition includes the steps of:

relating the load given from the outside to the results of measuring the resource situation inside the computer system,

thereby detecting a resource item having responded well to the load,

rendering the resource item as the monitoring item, and

determining the threshold as a criterion for monitoring the resource item by any of means of marginal performance or predicted value of the measured response or throughput or physical limitation of the resource based on the results of measuring the resource situation.

3. The load monitoring condition determination method according to claim 2, wherein the step of determining the threshold includes the steps of:

in the case where the results of measuring the response or throughput show the marginal performance, determining the threshold based on the results of measuring the resource situation of the monitoring item at that time;

in the case where the resource determined as the monitoring item shows physical limitation, determining the threshold based on the physical limitation; and

if the results of measuring the response or throughput do not show the marginal performance and the resource determined as the monitoring item does not show the physical limitation, predicting the marginal performance of the response or throughput from the results of measuring the response or throughput, predicting the resource situation of the monitoring item at the predicted marginal performance of the response or throughput from the results of measuring the resource situation inside the computer system, and determining the threshold based on the predicted resource situation.

4. The load monitoring condition determination method according to claim 1, wherein the step of determining the load monitoring condition includes the steps of:

presenting, to a system administrator, information on the amount of load given to the computer system, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system; and

having a part or all of the load monitoring conditions optimum for load monitoring of the computer system selected by the system administrator and setting the selected information as the load monitoring conditions.

5. A load monitoring condition determination system for determining a load monitoring condition for performing load monitoring of a computer system comprised of one computer or a plurality of computers, wherein the system comprises:

load generating means for giving a load to the computer system;

external response and throughput measuring means for measuring a response or a throughput of the computer system while giving the load to the computer system; and

load monitoring condition judgment support means for determining a load monitoring condition used for load monitoring of the computer system from the amount of load given to the computer system, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system while giving the load to the computer system.

6. The load monitoring condition determination system according to claim 5, wherein the load monitoring condition includes at least information on a

monitoring item indicating which item of which resource should be monitored and a threshold to be used for monitoring of the monitoring item; and

the load monitoring condition judgment support means comprises the means for:

detecting a resource item having responded well to the load given from the outside of the computer system from the results of measuring the resource situation inside the computer system;

determining the detected resource item having responded well as the monitoring item;

in the case where the results of measuring the response or throughput show the marginal performance, determining the threshold based on the results of measuring the resource situation of the monitoring item at that time;

in the case where the resource determined as the monitoring item shows physical limitation, determining the threshold based on the physical limitation; and

if the results of measuring the response or throughput do not show the marginal performance and the resource determined as the monitoring item does not show the physical limitation, predicting the marginal performance of the response or throughput from the results of measuring the response or throughput, predicting the resource situation of the monitoring item at the predicted marginal performance of the response or throughput from the results of measuring the resource situation inside the computer system, and determining the threshold based on the predicted resource situation.

7. A load monitoring condition determination program for causing a computer to execute a method for determining a load monitoring condition for performing load monitoring of a computer system comprised of one computer or a plurality of computers, wherein the program causes the computer to execute the steps of:

giving a load to the computer system from the outside;

measuring a response or a throughput outside the computer system while the load is given to the computer system;

receiving from the computer system the results of measuring the resource situation inside the computer system while the load is given to the computer system; and

determining the load monitoring condition used for load monitoring of the computer system from the amount of load given to the computer system from the outside, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system.

8. The load monitoring condition determination program according to claim 7, wherein the load monitoring condition includes at least information on a monitoring item indicating which item of which resource should be monitored and a threshold to be used for monitoring of the monitoring item; and

the step of determining the load monitoring condition causes the computer to execute the step of:

relating the load given from the outside to the results of measuring the resource situation inside the computer system,

thereby detecting a resource item having responded well to the load and rendering the resource item as the monitoring item,

determining the threshold as a criterion for monitoring the resource item by any of means of marginal performance or a predicted value of the measured response or throughput or physical limitation of the resource based on the results of measuring the resource situation.

9. The load monitoring condition determination program according to claim 8, wherein the step of determining the threshold causes the computer to execute the steps of:

in the case where the results of measuring the response or throughput show the marginal performance, determining the threshold based on the results of measuring the resource situation of the monitoring item at that time;

in the case where the resource determined as the monitoring item shows physical limitation, determining the threshold based on the physical limitation; and

if the results of measuring the response or throughput do not show the marginal performance and the resource determined as the monitoring item does not show the physical limitation, predicting the marginal performance of the response or throughput from the results of measuring the response or throughput, predicting the resource situation of the monitoring item at the predicted marginal performance of the response or throughput from the results of measuring the resource situation inside the computer system, and determining the threshold based on the predicted resource situation.

10. The load monitoring condition determination program according to claim 7, wherein the step of determining the load monitoring condition includes, and causes the computer to execute the steps of:

presenting, to a system administrator, information on the amount of load given to the computer system, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system; and

having a part or all of the load monitoring conditions optimum for the load monitoring of the computer system selected by the system administrator and setting the selected information as the load monitoring conditions.

11. A load monitoring program for causing a computer to execute a method for determining a load monitoring condition for performing load monitoring of a computer system comprised of one computer or a plurality of computers and performing the load monitoring on that load monitoring condition, wherein the program causes the computer or computers constituting the computer system to execute the steps of:

giving a load to the computer system from the outside;

measuring a response or a throughput outside the computer system while the load is given to the computer system;

receiving from the computer system the results of measuring the resource situation inside the computer system while the load is given to the computer system; and

determining a load monitoring condition used for load monitoring of the computer system from the amount of load given to the computer system from the

outside, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system; and

setting the load monitoring condition determined by causing the computer for determining the load monitoring condition to execute the steps and using the set load monitoring condition so as to perform the load monitoring of the computer system.

12. A load monitoring system for determining a load monitoring condition for performing load monitoring of a computer system comprised of one computer or a plurality of computers and performing the load monitoring on that load monitoring condition, wherein the system comprises:

load generating means for giving a load to the computer system;

external response and throughput measuring means for measuring a response or a throughput of the computer system while giving the load to the computer system;

load monitoring condition judgment support means for determining the load monitoring condition used for the load monitoring of the computer system from the amount of load given to the computer system, the results of measuring the response or throughput and the results of measuring the resource situation inside the computer system while giving the load to the computer system; and

threshold monitoring means for performing the load monitoring of the computer system by using the determined load monitoring condition.